

Attorney Docket No. 348162-991180

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REMARKS

The Examiner rejected pending claims 1-32 under §103(a) as unpatentable over U.S. Pat. No. 5,940,137 of Hulvey ("Hulvey") in combination with U.S. Pat. No. 5,497,187 of Banker et al. ("Banker"). To render a claim obvious, a combination must disclose or suggest each and every claim limitation. Applicant respectfully requests that the rejections be withdrawn because none of the proposed combinations disclose or suggest all of the elements of Applicant's claimed inventions. For the following reasons, Applicants assert that the all of claims 1-3, 5-9, 11-19, 21-25, and 27-32 as well as new claims 33-36 are allowable over Hulvey and Banker.

Independent claims 1 and 17 have been amended to better clarify the novel and distinguishing features of the present invention. Both independent claims 1 and 17 now recite unique features of the present invention that are neither disclosed nor contemplated by Hulvey and Banker. Namely, the independent claims recite receipt, sampling, and recovery of data from an analog video signal that includes a predetermined data pattern of an inherent parameter of the analog signal, as well as particular processing responsive to detection of the predetermined data pattern/parameter. New dependent claims 33-36 further provide detail of set-up processes consistent with the present invention. The amendments include no new matter.

Independent claim 1 recites a method of communicating digital data from a computer system to a display device by receiving and processing an analog video signal that includes a **"predetermined data pattern of an inherent parameter of the analog signal,"** and then commencing a set-up process for conversion a video signal into a display image of improved format **"in response to detection of the predetermined data pattern."** Independent claim 17 recites an apparatus for communicating digital data including receiving and sampling components that process an "analog video signal including a predetermined data pattern of an inherent parameter of the analog signal," and "a display controlling component that commences a set-up process, in response to detection of the predetermined data pattern, for converting a video signal into a display image of improved format." Thus, the present inventions teach detection of one or more inherent parameters and commencement of the claimed set-up

processes to create an output display signal of improved format for a particular target display device. As set forth in the pending application, the recognition of inherent parameters and commencement of associated set-up processes during analog signal conversion enables creation of a more optimal, non-degraded display image. (See, e.g., Pending Application at pages 4-6).

Hulvey does not teach detection of predetermined data patterns/inherent parameters for conversion of analog signals into improved display images for display devices. Rather, as recognized by the Office (Office Action, pg. 2), Hulvey is concerned with particular encoding and subsequent decoding of synchronization data in analog video signal transmission without the need to "use □ additional data bits for clock phase information." (Hulvey, col. 2, lines 3-21; see, also, Abstract). Specifically, Hulvey creates and encodes a subcarrier sequence on the transmitted analog signal via mechanisms such as "Manchester" and/or "Barker" coding. (Id., lines 22-33). With regard to decoding, Hulvey's teachings are directed only to recovery of the encoded information. Accordingly, Hulvey detects only the very sequences that were encoded, not inherent parameters of the analog signal as required by the claimed inventions. Similarly, Banker is directed to modulation and demodulation (detection) of *data* streams inserted into the transmitted signal, not the detection and conversion features of the invention, as set forth above and claimed. (See, e.g., Banker, cols. 11-14, col. 20, lines 32-65, col. 22, lines 44-67, and col. 23, lines 10-20). Banker thus fails to cure the deficiencies of Hulvey noted above, or otherwise teach or suggest the claimed limitations.

Because the above-described limitations are not disclosed or suggested in the cited art, all rejections relying on Hulvey and Banker for these limitations should be withdrawn. This includes rejections to independent claims 1 and 17, and all claims depending from those claims e.g., dependent claims 2-3, 5-9, 11-16, 18-19, 21-25, and 27-36. The Examiner's early reconsideration and withdrawal of the rejections is respectfully requested.

Applicant has also amended claim 17 to replace the means-plus-function terms with elements from the specification, and amended claims 11-12 and 27-28 to consistently refer to the claimed "inherent parameter." The amendments include no new matter.

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CONCLUSIONS

Applicant's claimed inventions are both novel and nonobvious over the prior art for the reasons set forth above. The prior art, taken alone or together, fails to teach or suggest each and every element of Applicant's claimed inventions.


For all of these reasons, Applicant respectfully asserts that all pending claims 1-36 are in condition for allowance. The Examiner's early reconsideration is respectfully requested.

If the Examiner has any questions, the Examiner is invited to contact Applicant's attorney at the following address or telephone number:

Andrew B. Schwaab
c/o Patent Department
DLA PIPER US LLP
2000 University Avenue
East Palo Alto, CA 94303-2248

Respectfully submitted,

DLA PIPER US LLP

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Andrew B. Schwaab
Reg. No. 38,611

Telephone Number: 650-833-2258
Facsimile Number: (650) 833-2001